

Supplemental table 1. Significant differentially expressed genes in ZFP-TG muscle.

Gene name	Log2 fold change	p-value
Kcns1	8.1080178	0.000118259
4933403O08Rik	7.978907479	0.000147222
Spp2	5.946672014	0.000210009
Btn1a1	5.900485943	0.000106956
Tex16	5.869150102	2.26E-11
Iyd	5.675009164	0.000673202
1700095J03Rik	5.414926705	4.32E-07
Serpina6	5.344517503	0.001332103
Stk33	5.293012959	1.01E-11
Gm10319	5.290729959	0.001281853
Gm15622	5.272903579	0.001445866
Anks4b	5.241701494	0.000990079
St14	5.180327184	1.07E-12
Rgn	5.174140713	9.49E-33
Pde6a	5.141414935	3.94E-11
Acnat2	5.106990287	0.003000555
Slc17a3	5.081651688	0.00013143
Smlr1	5.01808446	0.003157034
Trbc2	4.994860928	0.002725932
Gm37895	4.889058938	0.001491024
Nlrp6	4.736675856	1.16E-06
Mroh6	4.726469413	2.33E-05
Hsd17b2	4.592833962	0.000326638
BC089597	4.585593615	0.00049719
Susd4	4.568147561	2.24E-32
Gckr	4.549338586	9.03E-05
Hap1	4.530983958	2.06E-20

Slc22a30	4.467706848	6.22E-05
Acsml	4.437772754	1.15E-06
Dll1	4.424854146	3.98E-60
Zfp407	4.410190653	5.37E-135
Apon	4.406959679	3.58E-06
Serpina10	4.382638081	0.000702593
Ces3b	4.356399482	1.43E-05
Ugt1a1	4.349899985	0.000810982
Mug-ps1	4.316876497	1.05E-05
F13b	4.302806364	1.49E-08
Dnase2b	4.241747791	0.00089994
Klkb1	4.238819694	0.001152694
Ugt2a3	4.223373118	2.61E-08
Entpd8	4.2159578	0.000692334
Apob	4.199943259	6.22E-08
C8a	4.153756012	2.20E-05
Cyp2c69	4.153749837	0.001203636
Hrg	4.146975472	2.47E-06
G6pc	4.118422816	9.88E-07
Pipox	4.112487753	0.00016069
Cyp2d9	4.107679414	3.68E-06
Itih1	4.106976572	4.92E-08
Apol7a	4.084235081	2.75E-05
Onecut2	4.070153573	2.23E-05
A1cf	4.054065438	5.87E-05
Ugt1a9	4.052711373	4.69E-05
Cps1	4.04966367	2.44E-07
Pah	4.049354005	5.06E-07
Mug1	4.038089064	5.34E-07

F11	4.032706894	0.000193254
Rab42	4.032283942	3.48E-05
Ces3a	4.028067682	1.68E-06
Mia2	4.021851873	2.34E-05
Ces2a	4.020910448	3.10E-06
Ighg2c	4.011464126	0.001631074
Plg	3.998838833	2.18E-06
Hc	3.993120513	2.52E-06
Pzp	3.991753494	1.15E-06
Slco1a1	3.979227124	1.24E-11
Abcb11	3.970305903	2.04E-06
Apoa5	3.960082377	6.01E-07
Hao1	3.957589075	1.65E-06
Cyp2c37	3.938417099	5.07E-07
Timd2	3.935961746	0.002631967
Akr1c6	3.91379512	8.86E-07
Apoc4	3.911599639	6.28E-10
Igfbp1	3.8952882	1.25E-06
Cyp3a25	3.889607629	4.85E-06
Gm37844	3.885604889	0.000655566
Cpn1	3.880144359	0.000286304
Stra6l	3.868485998	4.19E-05
Ugt2b1	3.848120754	8.37E-08
Apoa4	3.842370252	7.71E-07
Acot12	3.83665773	3.21E-08
Apol9b	3.833421068	6.26E-05
Aadac	3.833115402	9.63E-11
Gpr27	3.832595599	2.46E-42
Cyp2c50	3.830949991	6.86E-06

Ugt2b34	3.826943938	1.61E-06
Gys2	3.812756422	0.000109566
Cyp4a10	3.796883984	8.29E-07
Uroc1	3.795779488	1.15E-05
Cyp2c67	3.784554956	0.000208629
9330162012Rik	3.780744181	3.39E-23
Alb	3.773352998	4.89E-07
Cyp4f14	3.76403177	3.53E-05
Apof	3.762410456	7.16E-07
Slc30a10	3.76106151	0.000156979
Slc27a2	3.755008773	1.61E-06
Ces1c	3.754714755	6.51E-07
Pigr	3.750073306	8.10E-06
Baat	3.748938962	1.09E-05
Bcl11a	3.741390474	4.95E-05
1300017J02Rik	3.734088555	1.79E-06
C8b	3.733936254	1.78E-05
Skap1	3.731495632	0.000419816
Tat	3.731488273	3.64E-06
Gm4788	3.722302542	2.54E-05
Fgb	3.721523885	1.00E-06
Mug2	3.718570805	0.000251655
Mat1a	3.712809671	5.58E-06
Fga	3.703282326	9.80E-07
Hsd17b6	3.700379232	0.001328995
Kng1	3.697040456	8.31E-06
Afm	3.695174149	0.000173178
Dpys	3.691588256	3.62E-07
Ugt3a2	3.6879542	4.23E-06

Cyp4a14	3.685908592	3.25E-06
Serpina1b	3.685818922	6.21E-07
Cml2	3.669622506	1.42E-05
Cyp3a59	3.661343513	6.41E-05
Hgd	3.659915383	1.13E-05
Itih3	3.65667548	1.87E-05
Abcc2	3.656219151	7.18E-06
Dmgdh	3.652758483	0.00025365
Cyp2a12	3.649643059	4.36E-06
Bhmt	3.644947278	2.80E-06
Urah	3.641209028	0.000106121
Fbp1	3.620588017	3.22E-07
Ugt2b36	3.620215826	2.95E-06
Fetub	3.617716647	0.000167479
Ces2e	3.617488048	6.66E-06
Sult1d1	3.613825367	8.66E-09
Cyp3a11	3.61252474	1.25E-07
Itih4	3.611298216	4.34E-06
Slc27a5	3.610699844	4.40E-06
Ugt2b35	3.599446989	0.00026234
Cyp2c54	3.596720988	0.001031223
Sult2a8	3.584315959	2.66E-07
Serpina1e	3.563235978	2.87E-06
Cyp7a1	3.563153319	2.10E-05
Slco1b2	3.562387224	1.47E-07
Aadat	3.558306104	6.57E-06
Apoa2	3.555945285	3.48E-07
Aldh8a1	3.54831401	5.00E-05
Rdh7	3.541024933	2.70E-07

Cyp2j5	3.53554646	1.67E-05
Azgp1	3.525775424	2.12E-06
Serpinf2	3.517559762	4.62E-06
Cyp4a12b	3.517013185	0.000549339
Asgr1	3.512041799	2.15E-07
Apoa1	3.508191579	7.65E-07
Mbl1	3.503416949	1.79E-05
Aldob	3.502378374	2.06E-06
F12	3.490051395	7.30E-05
Slc22a1	3.481772194	4.09E-05
Uox	3.479032391	1.24E-06
Abcc6	3.476596124	0.00011123
Cfhr2	3.471356037	6.37E-09
Hamp	3.461209369	1.30E-05
Ces1g	3.459472924	4.35E-05
Ahsg	3.449849453	1.88E-06
Cyp2c40	3.448906801	0.000261193
Serpina1d	3.441473806	1.34E-05
Slc17a2	3.440562784	0.000193621
Cyp2c29	3.436131072	5.34E-06
Gc	3.414316624	2.50E-06
Ttr	3.414312907	2.58E-05
F9	3.413859023	8.96E-05
C4bp	3.408436612	1.87E-05
Slc2a2	3.407926303	0.000155442
Hnf4a	3.407502361	8.51E-05
Cyp2d26	3.403468811	1.34E-05
Arg1	3.401936094	3.67E-07
Ttpa	3.39847292	3.17E-07

Serpina3k	3.36761876	5.53E-07
Tmem150c	3.360083283	3.34E-25
F2	3.357958845	6.47E-06
Mup3	3.348706393	6.84E-08
Cyp8b1	3.335692617	2.04E-05
Cyp3a13	3.334554799	2.12E-05
Map3k15	3.326395957	2.08E-29
Etnppl	3.320562984	2.38E-05
Hpd	3.320095738	8.22E-06
C9	3.290570045	5.90E-05
Mbl2	3.28632474	5.26E-06
Serpinc1	3.284310785	5.16E-06
Tmem28	3.278195419	1.94E-06
Cyp2c68	3.278138499	2.47E-06
Mettl7b	3.276952642	0.000343232
B430119L08Rik	3.2689159	5.46E-05
Chd3os	3.267049714	7.80E-05
Xylb	3.265329128	5.47E-05
Cd8b1	3.264594137	0.000227498
Cfi	3.258712013	1.04E-05
Kynu	3.255396538	2.67E-05
Otc	3.254663164	0.000128708
Elovl2	3.254653052	2.91E-05
Clec4f	3.250503327	0.000579731
Igf2os	3.250373545	1.52E-07
Serpina1c	3.24651008	0.000107535
Hpx	3.231560449	1.37E-06
F5	3.2168285	5.94E-05
Fgg	3.216819171	7.56E-06

Mup1	3.216335333	2.15E-05
Nr1i3	3.202729068	0.00052812
Sgk2	3.199606845	0.002382897
Akr1c20	3.195766988	0.001421198
Apoh	3.192037875	1.15E-05
Aass	3.182922306	4.15E-05
Gm4952	3.17761018	0.00076184
Ugt2b5	3.168550756	6.19E-08
Cd5l	3.161355705	9.02E-06
Fabp1	3.152833709	3.25E-06
Glde	3.145030894	0.000218554
Cyp4a32	3.14457654	0.000234982
Cyp2c70	3.140153156	2.41E-05
Cyp1a2	3.140138381	1.20E-05
Prim1	3.1285217	2.36E-22
Bcl11b	3.125010579	0.001126645
Agxt	3.122299814	3.09E-05
Amdhd1	3.121493202	6.22E-06
Akr1d1	3.107188387	4.45E-06
Adh4	3.096471736	0.000110987
Gm20036	3.093706991	1.10E-08
Slc1a2	3.086469703	0.000115588
Hal	3.080432368	8.11E-05
Gp5	3.075145995	0.000191219
Aqp9	3.062502393	0.000217698
AI182371	3.056865791	3.19E-06
Ftcd	3.055586859	0.001046439
Bbox1	3.042092562	1.16E-06
Dnajc22	3.040493382	0.001260366

1-Mar	3.04011777	1.86E-05
Ass1	3.036924489	2.47E-05
Fbxo2	3.026093858	0.000644484
Tm4sf4	3.02576889	0.002058924
Dsp	3.014876234	2.34E-05
Cpn2	3.012374233	0.00019387
Etnk2	3.010084546	1.00E-05
Trim38	3.009781618	0.000155237
Hsd3b3	3.005842815	0.000107269
Dio1	3.004674073	7.23E-05
RP24-140D11.1	2.995820847	6.23E-07
Cyp4a12a	2.994759315	0.002000049
Gm26834	2.993579912	0.000687236
Abcg8	2.982232788	0.000580131
1700040L02Rik	2.966739673	1.76E-06
Cpb2	2.965264232	0.002058049
Hsd17b13	2.957864477	6.84E-05
Mup20	2.946560584	1.07E-06
Mup21	2.943577089	0.002973368
Fgl1	2.932135726	2.68E-07
Hao	2.931984665	1.03E-06
Tfr2	2.925081767	6.76E-06
Rbp4	2.917274307	1.89E-05
Igsf11	2.914679692	1.99E-10
9530080O11Rik	2.910840151	4.68E-10
Slamf6	2.909030748	0.000549332
Tdo2	2.90243225	6.34E-06
Acox2	2.897800505	2.24E-07
Tnfrsf11b	2.878086915	6.01E-09

Cyp17a1	2.877776334	0.001868828
Abcg5	2.870882428	0.001254942
Mss51	2.86934534	0.001264725
Apoc2	2.856667184	2.38E-05
Rnf43	2.854081941	0.000367912
Ambp	2.841590806	5.08E-05
Gls2	2.840261991	7.27E-06
Itih2	2.833772046	9.38E-05
P2ry10	2.827865961	0.000439042
Lcat	2.80509784	0.001852533
Slc2a3	2.801762539	2.00E-25
Cyp2d10	2.799601063	0.000519769
Nr1i2	2.78965462	0.001497502
Nr1h4	2.785677706	2.62E-05
Crp	2.780775282	3.10E-06
Gulo	2.780172636	0.000149885
Ces1b	2.778090734	0.001343643
Saa4	2.776733793	5.02E-05
Sds	2.768452709	0.000518519
Mup14	2.754727637	0.001818084
Lipc	2.746030229	0.000800836
Nlrp4g	2.745403207	0.000376788
Igfbp2	2.741288104	1.21E-06
Mup7	2.732776677	0.000171965
Cyp4a31	2.731606362	0.000988318
Adrb1	2.722473406	5.74E-05
Fam83c	2.717560578	0.000173223
Pglyrp2	2.704052445	0.000217953
Wwc1	2.696307616	0.002940251

Dlgap1	2.688581831	2.60E-08
Pkdrej	2.687578655	2.52E-13
Acaa1b	2.683989603	0.000451011
Akr1c19	2.683070169	0.002235537
Slc10a5	2.67740497	0.001919645
Rgs1	2.665540923	0.002779722
Mgam	2.664416733	2.78E-05
Glyat	2.659292544	1.51E-05
RP23-50I16.2	2.651530266	3.55E-10
BC025446	2.651518385	0.000749514
Creb3l3	2.647827286	3.91E-05
Tgtp2	2.635314619	3.65E-05
Gnmt	2.627872024	8.05E-05
Ephx4	2.627464265	2.55E-07
Faah	2.617617352	0.000138202
RP23-446B17.3	2.613176395	0.001958422
Tmprss6	2.602210071	2.67E-05
Cyp4f15	2.601362919	0.001278012
Slitrk5	2.588278538	7.88E-07
Glyctk	2.587373006	0.002605021
Kng2	2.563874005	7.57E-05
Serpina3m	2.556897706	0.002062426
Ttc36	2.548106742	0.000159151
Klhdc8a	2.546060858	5.85E-05
Apol9a	2.526952103	0.001374452
Cfhr1	2.516902044	6.48E-05
Dsg2	2.513810706	5.92E-05
F10	2.50395348	0.001427525
Prodh2	2.473001542	0.002539744

Apoc3	2.470702233	0.000258709
Zap70	2.468396395	3.97E-08
Dnase1l3	2.466366842	3.74E-05
Kif26b	2.453559763	1.31E-11
Slc37a1	2.453180167	2.00E-19
Mal2	2.435615342	0.002553228
Rapgef4os3	2.426967321	0.001986919
Gm9812	2.417867895	1.97E-05
Cyp7b1	2.406184933	0.000104107
Acnat1	2.402112152	0.003180712
Ankrd13b	2.378510412	5.96E-19
Mroh8	2.373612273	1.40E-07
Irx2	2.360273136	0.002938094
Aspdh	2.344897413	0.001625376
Klf14	2.330366939	0.000217558
Abcc3	2.296006153	3.58E-05
Jph4	2.292888501	0.000316843
Pon1	2.261396609	0.002170449
H2-Q10	2.254524537	0.000277557
Gm4955	2.250263	0.000342884
Gm2564	2.250192117	0.001353539
Aspg	2.247133438	0.000327354
Slc25a13	2.223652571	0.000563397
Upp2	2.222452085	0.00119115
B4galnt1	2.217172267	3.47E-06
Proz	2.215741496	0.00016402
Fam69b	2.215305942	8.17E-08
Ccne1	2.21482111	1.19E-06
Dsc2	2.204401992	0.000939657

Kmo	2.201845589	9.34E-07
Cited1	2.182299107	0.000775223
Sec14l4	2.17842396	0.0005942
Mpped2	2.162877407	1.41E-15
Gm15915	2.159018776	5.78E-06
2210011C24Rik	2.138421382	2.23E-12
Rasgrp1	2.13431453	0.001957645
Reep6	2.115084557	0.000235748
Serpind1	2.107869774	0.001686816
Rhoh	2.105805631	0.000119761
Cd4	2.097386455	0.000440586
Mup11	2.097219894	0.000141517
Ak4	2.093464774	3.55E-24
Dna2	2.083837742	4.19E-13
Gm6981	2.080994339	1.83E-05
Rasal3	2.064190814	0.001151873
Acsm5	2.052281441	0.001557921
Hmgcs2	2.049740063	0.000287155
Rims4	2.048461386	1.24E-09
Col11a2	2.045866186	0.000217227
Gm32391	2.028853724	0.000524879
C6	2.024720128	3.10E-05
D630024D03Rik	2.024270807	3.72E-05
Kctd17	2.019787944	7.63E-15
Il2rb	2.011907968	0.000840544
Ms4a4c	2.008181289	0.001907115
Mup10	2.005809996	0.001683707
RP23-348H21.2	2.002068646	0.000884293
Upb1	1.996728465	0.000225007

Fgr	1.98648272	0.000393628
1700016C15Rik	1.975152043	0.000951245
Sardh	1.961549801	0.001747983
Mst1	1.950588215	0.001345489
Sec14l2	1.933761902	9.66E-05
Dhcr24	1.929321875	8.12E-05
Hs6st2	1.927754711	1.51E-36
Slco1a4	1.92511993	0.000195331
Slc25a47	1.923956674	4.64E-06
BC094916	1.920272665	0.001121424
Hgfac	1.915268986	0.002438407
Cbs	1.867933861	0.000900047
Zbp1	1.866635866	5.41E-06
Angptl3	1.864777703	1.30E-05
Grin2d	1.864333804	0.001310287
Ppm1e	1.859503793	4.79E-16
Ppp1r3b	1.859300054	0.000455148
Gspt2	1.855445891	1.51E-08
Eda	1.850512751	2.50E-16
Cd52	1.835282866	0.000766605
Ehhadh	1.830301798	9.53E-05
Rab38	1.827349742	8.28E-05
Nipsnap1	1.823925927	0.000223018
H2-Q7	1.820496003	7.16E-09
Tnfrsf13b	1.819288966	0.00032313
Pydc4	1.810512209	1.99E-07
Ankrd13d	1.809783021	3.82E-05
Cish	1.808277644	2.40E-07
Itgax	1.806945468	0.000362209

Cth	1.803940491	0.001153518
Spn	1.797804864	0.000498773
Prr15	1.793792117	8.13E-05
Gm32569	1.78486095	2.38E-05
Pm20d1	1.78107897	0.000614534
Nab2	1.780726511	1.58E-16
Ankrd35	1.770610586	6.23E-11
Neto2	1.763989019	2.51E-10
Nim1k	1.763438738	1.49E-20
Irf7	1.750383334	1.65E-12
Tlr9	1.749719777	6.69E-07
Adamts8	1.744512804	4.15E-06
BC055324	1.743663461	9.25E-07
Mt3	1.73380529	3.08E-05
Ddah1	1.730527262	3.35E-07
Edn3	1.724069366	3.13E-09
Slfn1	1.721566154	8.71E-05
Calcr	1.708511389	8.89E-19
Myf5	1.702386729	2.51E-12
Apoc1	1.701989522	0.001654744
Prss8	1.701886863	0.001369949
Syt14	1.691964127	0.000178912
A930024N18Rik	1.691060675	0.000327178
Oas1a	1.678358732	0.000176239
Msra	1.677815118	2.36E-21
H2-Q6	1.677349243	8.74E-07
Itgal	1.671433219	0.000216757
Rogdi	1.670407007	5.78E-12
Ccdc18	1.666058082	6.25E-05

Sash3	1.662128633	0.000621566
Nxpe3	1.661830396	2.98E-07
Ccl21a	1.660911073	0.001977056
Ifi47	1.632006303	8.77E-07
Nlrc5	1.631890118	9.35E-07
Fgf11	1.625471294	2.91E-13
Nppc	1.598794801	0.002689658
Frmpd1	1.586142862	5.34E-06
Tmem41a	1.582236648	9.83E-08
Clcf1	1.577795835	5.45E-05
Ttc39c	1.572762796	1.94E-05
Tmem30b	1.57222941	0.001573271
Oas2	1.569946355	5.51E-10
Mms22l	1.56822112	5.39E-06
0610005C13Rik	1.567640695	0.001808652
Panx1	1.56651911	5.51E-08
Ptk7	1.558849478	7.67E-08
Gm37685	1.558612467	0.000397288
Dpyd	1.555691932	1.22E-06
Clcn2	1.554516243	5.88E-11
Zfp711	1.551730626	8.20E-06
C8g	1.548252116	0.002748818
Vcpkmt	1.545384176	1.81E-08
Ryr3	1.536704724	9.20E-06
Arhgap4	1.523499498	0.000189116
Uts2r	1.519765941	0.001552943
Isoc2b	1.511700395	2.33E-08
Gm37403	1.511326542	3.46E-07
Pafah1b3	1.509333178	0.002837165

Scx	1.502389365	0.000814101
Cib1	1.486496627	1.02E-13
Gm166	1.486310598	0.000461163
Lair1	1.482676493	8.18E-05
Cmtm8	1.479816908	9.29E-07
Myd88	1.460496367	6.90E-13
Fam19a5	1.451443571	4.62E-07
Tagap	1.450167682	0.000458383
Tmem107	1.446245047	0.002920014
Dhx58	1.445896088	5.51E-06
Nek2	1.445062328	3.36E-05
Pyhin1	1.444740777	0.001328542
Fads1	1.433970017	3.43E-13
Exoc314	1.433934515	9.04E-05
Marveld2	1.433023898	0.000371809
Ptpn6	1.429914524	0.000512314
Tmem82	1.428137723	3.35E-06
Igtp	1.425658221	0.000176466
Sdf2l1	1.419580243	4.89E-06
Fancd2	1.417732981	5.69E-05
Oasl2	1.417615797	4.86E-12
Ifit1	1.415174719	1.73E-10
Gm10101	1.412533002	7.21E-06
As3mt	1.410049308	9.29E-23
Enpp1	1.409944765	8.53E-14
Rapgef4	1.406397626	0.00109676
2310047M10Rik	1.40602179	8.08E-09
Gm4951	1.400262883	0.000115383
Tspan33	1.399861669	1.55E-05

Rtn1	1.39387106	7.92E-06
B230317F23Rik	1.391831553	9.27E-05
Abhd3	1.390099959	3.71E-05
Aldh1b1	1.384998376	0.002730149
Slamf7	1.377927785	0.001591854
Fndc4	1.36985831	3.43E-05
Coro1a	1.369765102	0.001637551
Cenf	1.359591242	0.002471529
Cdk15	1.358451559	6.97E-09
1700112E06Rik	1.356646849	1.53E-08
C230052I12Rik	1.355900582	0.001216662
Unc5c	1.354907771	0.00114732
Mpeg1	1.354378232	8.59E-10
Igf2	1.349424174	4.46E-20
Gm15824	1.344340237	0.000883822
Whrn	1.343061275	0.001121494
Mttp	1.341125028	0.000505312
Tap1	1.340893416	3.42E-07
Unc5a	1.340158722	9.87E-08
Mrm1	1.339179366	5.73E-07
Snx7	1.335591345	1.83E-12
Ifi44	1.332933778	8.09E-07
Ccnd1	1.332798462	8.11E-09
Akr1c14	1.332311475	0.001542364
Cnr2	1.32877978	0.000876599
Efs	1.325064802	4.18E-06
Cyp4v3	1.324100861	0.000781253
N4bp2	1.316710855	2.51E-18
AB124611	1.315024602	0.000537704

Adra1a	1.310715472	7.38E-10
Slc16a7	1.310624611	4.86E-05
Chsy3	1.305393026	0.000474228
Asl	1.304786436	0.000862486
Fam189b	1.301784996	1.49E-06
Ormdl1	1.29866321	2.32E-11
Isg15	1.297319698	0.000313153
Greb1	1.295337506	0.002009002
Btbd11	1.290429839	4.95E-07
Rasgef1b	1.290151156	5.12E-05
Oasl1	1.288201899	0.001840274
Evl	1.287802961	3.96E-09
Tbc1d1	1.283447893	2.23E-06
Slc2a9	1.279270785	0.000446616
Trf	1.277990628	0.000301258
Chodl	1.27260348	1.08E-08
Fmo5	1.270837265	0.000138054
Bmp2	1.264004348	3.63E-06
Anln	1.263218432	2.09E-11
RP23-121M13.4	1.261547164	0.0005635
Rab11fip1	1.257284427	0.001285373
Abi2	1.251864058	5.59E-32
Cage1	1.250012731	0.001376908
Rad18	1.248570715	2.71E-09
mt-Tm	1.246596058	0.000725559
Ifit3b	1.234442879	0.000487696
Prkec	1.230521172	2.77E-06
Cyp2u1	1.227019546	1.65E-06
Slc4a7	1.222622903	3.59E-25

Polr3g	1.219328893	1.78E-06
Morc4	1.217182196	5.35E-12
Ifit3	1.214067817	4.01E-08
Hbegf	1.20622572	8.40E-08
Dpy19l1	1.196572817	2.71E-19
Adgre4	1.191869179	0.00312449
Mblac2	1.190499617	2.38E-06
Pole	1.188861346	1.05E-10
Mppe1	1.188521856	1.82E-06
2310030G06Rik	1.187586526	7.98E-06
Gdap1	1.184629787	5.40E-05
Naprt	1.181639625	3.22E-05
Ankrd1	1.178684077	0.000489323
Prox2	1.178649642	3.23E-05
Rtp4	1.176338927	3.75E-07
Gpld1	1.173335813	1.68E-06
Ezr	1.171914278	1.90E-05
Fam78b	1.171084149	3.73E-05
Gm15676	1.163129788	0.0003199
Pla2g2d	1.161841901	0.002088856
Msc	1.160224979	1.61E-05
Med12l	1.156986927	0.001200454
Mx2	1.15626694	0.000677383
Shkbp1	1.151374552	0.000154237
Abtb2	1.150446723	1.23E-05
Ilvbl	1.145934271	9.82E-07
Slfn2	1.145724588	4.44E-06
Vtn	1.143470719	0.000486068
Siglec1	1.140399522	1.15E-09

Cd1d1	1.131232023	0.003131023
H2afx	1.129611988	2.72E-05
Sord	1.124121808	4.38E-11
Galm	1.119625297	7.02E-07
RP23-339I6.1	1.116799709	0.001953229
Rbpms2	1.109162565	0.000426243
Wdfy4	1.108492604	1.94E-05
Lurap11	1.106745084	8.82E-08
Ostn	1.105653316	0.000537362
2010320M18Rik	1.104507557	1.49E-07
Zpr1	1.098044145	2.04E-08
Chst3	1.091801331	0.00120019
Acad12	1.090794519	2.18E-07
Ttc9	1.089006279	0.000152785
Arhgap27	1.086876142	2.30E-07
Tmem205	1.086338328	1.79E-07
Ddb2	1.073661857	1.25E-05
Glis3	1.073601288	3.21E-05
Cxcl9	1.071565924	0.001301584
4930458D05Rik	1.070661226	2.10E-05
B4galt2	1.065895337	0.000470144
Oas1b	1.063661721	0.000769426
Crfl1	1.063167035	0.000140133
Nudt8	1.058170587	7.59E-06
Tex30	1.057537831	1.21E-05
Gm20632	1.048025909	0.000754903
Gbp3	1.042151917	0.000268623
Alox12	1.040878972	0.001238165
Itgb7	1.040038149	0.001340478

Stau2	1.038365005	1.02E-12
Fam132b	1.034068619	0.000869191
Kbtbd11	1.02885899	0.000638177
Pik3ap1	1.028789336	7.30E-06
Gm22154	1.027811039	0.001415314
Rad9a	1.027169799	0.000365173
Sdc1	1.023667123	0.000142664
Trim66	1.020863169	0.002855885
Bnc2	1.017028007	1.03E-06
Lpin2	1.01567321	0.001061122
Fgfr4	1.012464338	0.000124522
Mtbp	1.012272218	0.001289363
Ptgr1	1.008842272	3.39E-06
Mx1	1.001525126	0.002180931
Trpv2	0.999604894	5.00E-05
Stk17b	0.996805656	9.37E-07
Ighm	0.995880074	0.001643409
Rap2a	0.994035234	5.03E-13
Usp18	0.992760667	1.42E-05
Chml	0.988982122	8.29E-07
Msh6	0.983929646	3.14E-15
H2-DMa	0.982933985	0.000290124
Slfn8	0.981108497	0.000694386
Fbxo44	0.98010499	1.44E-06
Map2	0.979394312	7.20E-06
H2-Eb1	0.97769625	4.35E-06
Arl2	0.976570717	5.85E-06
Tbcd	0.972459233	1.30E-07
Hgf	0.969875662	0.002431561

Bst2	0.969749463	4.69E-05
Rab27b	0.969539865	0.002618017
H2-Q4	0.964198352	3.75E-05
Polq	0.960715628	0.003159566
Rnf213	0.956490729	2.10E-10
Rab27a	0.953408429	5.07E-05
Vcam1	0.95129109	7.20E-06
Trpm2	0.946939973	0.002990218
C3	0.945867301	0.000667498
Cox11	0.944865496	0.000752147
Ctss	0.934851626	0.001129471
Gm20743	0.931430144	0.000857373
Lgals3bp	0.92999759	4.47E-07
Pax7	0.929556076	9.22E-06
Shroom2	0.927904012	8.20E-06
Hook1	0.927607314	2.50E-06
H2-Aa	0.924326164	7.20E-05
Marveld1	0.921664395	7.19E-05
Cenpo	0.920975983	3.51E-05
Hrasls	0.918560592	8.40E-08
Shb	0.915845575	9.22E-05
Ccne2	0.915632466	5.70E-06
Rnaseh2c	0.915228071	0.000793459
Frrs1	0.91048575	7.17E-06
Prr5	0.909621734	0.000222039
Primpol	0.909193012	6.95E-05
Myo1g	0.909081342	0.000479938
Irgm2	0.903685354	7.91E-05
Gmn	0.903277289	0.001105337

Decr2	0.902634782	0.000158953
Hn1l	0.898549601	2.73E-05
Cadps2	0.89818311	0.002807804
Tmem229b	0.896411653	0.000130054
Ube2t	0.895255694	0.000123871
Slc22a3	0.89474188	0.001827584
Limd2	0.894571028	0.001102487
Plcg2	0.888762059	0.000593821
Sh2d4a	0.888368603	8.32E-05
Nagk	0.888086643	7.09E-06
Cd74	0.88547699	3.54E-05
Ccbe1	0.885254419	7.26E-05
Herc6	0.884184076	0.000195792
Endog	0.883204555	0.000746783
Rab3ip	0.878351558	7.23E-08
Pde8a	0.870266194	9.63E-08
Bend7	0.870265062	0.00022481
Cbx4	0.867418599	0.001225438
Heyl	0.866351204	0.000349541
Parm1	0.865089592	0.000375361
Ciart	0.859441266	0.001180539
Ddx60	0.843862494	4.48E-06
Xaf1	0.841364077	0.000112367
Cd24a	0.84029796	1.98E-05
Gm21955	0.840155379	0.001350894
H2-Ab1	0.837744268	1.33E-05
Cby1	0.836036373	0.000726658
Gbp2	0.835942461	0.00319892
Ankrd6	0.828801921	0.001246213

Stat2	0.826218074	0.000217499
Psmb8	0.82570505	0.000995218
Vopp1	0.82231501	3.01E-05
Golim4	0.821155647	1.37E-07
Tlcd2	0.820926193	0.0014818
Itgb2	0.82075397	0.001169143
Fam65b	0.820334346	0.000493739
Gpx1	0.817722258	5.86E-07
Hjurp	0.816388984	2.52E-11
Slc47a1	0.815960472	1.09E-06
H2-T23	0.811488912	2.83E-05
Vps13a	0.809946882	1.16E-05
Rsad2	0.809602289	1.90E-05
Syt12	0.807388439	0.001746076
Lgals9	0.806940301	2.94E-05
Lcp1	0.806211004	0.001071892
Parp12	0.805989267	2.34E-08
Pcx	0.805727582	0.000366012
Psmb10	0.805646928	8.60E-05
Soat1	0.804865854	4.13E-08
Tspan4	0.801685309	0.000287475
BC017158	0.79721103	0.000195643
Cyp39a1	0.795578442	0.000635957
Hsd11b1	0.794974884	1.24E-05
Plin2	0.793789094	1.58E-05
Fkrp	0.793575194	1.00E-05
Mpv17l	0.793404604	0.001290245
Acot7	0.79080824	0.002276537
Agpat2	0.790455049	0.002041369

H2-K1	0.782610699	0.000156397
Yif1b	0.781901627	0.00036247
Cgrrf1	0.781230446	4.62E-08
Tmem206	0.777071599	0.000875627
Mcm6	0.776973288	0.000146551
Mesdc1	0.774983829	1.56E-05
Hoxa10	0.774392376	7.94E-06
Adar	0.7742661	5.08E-07
Gxylt2	0.77260079	0.000122106
Rpa3	0.772231966	0.000817741
Dnajc12	0.770284962	9.61E-06
Eva1b	0.767633728	0.00267247
Lysmd2	0.762552101	1.71E-05
Blmh	0.762457917	1.59E-13
Pde1c	0.758961481	0.000523088
Hsd17b12	0.757949625	0.002300362
H2-T24	0.75652047	3.09E-05
A830052D11Rik	0.755052367	0.003206023
Laptm5	0.751211738	0.001076957
Lym2	0.747219114	2.72E-07
Wls	0.74509067	4.25E-11
Dtx3l	0.743216169	1.24E-07
Rhpn2	0.743207877	0.001967764
Parp16	0.741519194	0.001339885
Qsox1	0.741406615	4.42E-05
B2m	0.741301891	0.000165556
2310011J03Rik	0.740328161	5.93E-05
Ap1s1	0.7385464	1.33E-05
Zfp61	0.734745799	0.002440196

Gm15179	0.728562978	0.001699206
Uba7	0.726950437	0.000258939
Ly6e	0.725536315	6.68E-06
Slc9a3r1	0.723288266	0.001044921
Gkap1	0.720125934	1.71E-09
Fads3	0.719572165	0.00301312
Ebpl	0.719044151	0.001325755
Slc1a1	0.716823565	0.001807445
Mettl21c	0.709591083	0.000723645
Emc9	0.708846893	6.79E-05
Tiam2	0.707906376	0.000895853
Eif5a	0.704360934	2.43E-05
Tmem120b	0.702119193	0.001474902
Ifit2	0.696934855	1.16E-05
Cryz	0.693314377	0.000527416
Etaa1	0.69244106	0.000801969
Icam1	0.689701954	0.000952249
Klhl23	0.686934438	4.38E-06
Cd82	0.683945135	4.62E-05
D16Ert472e	0.682378074	0.000768192
Mapkap3	0.68233869	0.002848889
Il17ra	0.682139458	0.000594631
Ppp3cc	0.680457815	1.96E-05
Parp14	0.680315915	2.15E-06
Aim1	0.678994419	0.000469313
Relt	0.678014854	0.002693015
H2-D1	0.677974538	0.000281947
Epb4.115	0.67720807	8.10E-06
Ndn	0.672057229	0.002934389

Irgm1	0.666907197	8.27E-06
Cend3	0.664423661	1.96E-05
Hspa4l	0.659182862	0.000241498
Tspan9	0.658519196	0.002530279
Stat1	0.656449907	0.00190673
Rom1	0.654300287	0.002873577
Sec31b	0.652921401	3.39E-06
Myef2	0.652172161	0.002365018
Tsga10	0.651354945	0.000135134
Ermp1	0.651269704	2.14E-08
Irf9	0.651119536	7.88E-06
Spats2	0.650808548	0.000270422
Pms1	0.650541568	0.000198584
Slc46a3	0.646705739	0.000134425
Lbh	0.645689718	0.002040309
Gtdc1	0.643791805	7.30E-10
Gas1	0.641418999	0.000295982
Nxn	0.640195369	0.001475598
Ifitm3	0.64003448	3.68E-05
Bnip1	0.638885608	3.26E-06
Galnt10	0.637350549	0.00038196
Slc19a2	0.630003589	0.000181274
Pxdc1	0.62883149	0.000205833
Nudt19	0.623937002	9.18E-05
Mdfic	0.621880335	2.91E-06
Sgk3	0.621553873	2.06E-05
Slc22a15	0.620230055	0.002282912
Fbp2	0.619004099	0.000572868
Slc16a1	0.616230189	0.00010979

Chka	0.615469721	0.001860999
Ogfod2	0.613740433	0.00126893
Apobec3	0.609076932	0.002255621
Traf3	0.605853158	3.08E-06
Cep19	0.602248715	5.82E-05
Rttm	0.601485811	0.002062556
Ttc7	0.600056061	0.002502459
E130308A19Rik	0.596377664	0.00320904
Sirt7	0.595682048	0.000790394
Serpinb6a	0.595244001	0.000629335
Crot	0.59331483	0.000838577
Pdxk	0.592150984	0.000974676
Ttc39b	0.587664337	0.000471295
Tomm22	0.585581772	0.000438557
Alg9	0.585099941	0.00072145
Rps16	0.585025373	0.002693848
Dennd5b	0.584095361	0.000622633
Adamts10	0.583141068	5.59E-05
Ddx58	0.582662666	4.79E-05
Erlin2	0.582642482	2.35E-05
Helz2	0.581647259	8.55E-05
Bola1	0.579938629	0.002192991
Apeh	0.577387259	0.001103294
Nudt18	0.575195558	0.002145572
Gabbr1	0.573851386	3.10E-05
Lmbr11	0.573456172	0.00023563
Ifnar2	0.571081196	0.001165004
Ly6a	0.568755792	0.002595064
Rap1gap2	0.568416135	0.00069188

Csk	0.563469829	0.001718197
Neat1	0.562725198	0.00319086
Reep1	0.562519765	0.000456308
Hmgcr	0.561943375	3.93E-05
Ppapdc1b	0.561777778	0.002460113
Ucp2	0.561029772	0.00151231
Lrp4	0.55915994	3.82E-05
Slbp	0.558145775	0.000736171
Smim19	0.551564892	0.001528078
Mfhas1	0.550344792	0.002413248
Dtx4	0.546411032	4.00E-06
Slc39a10	0.546312787	0.000198833
Aph1b	0.545622485	0.002878949
Tdrp	0.545480067	0.002290644
Plekha2	0.543944384	0.000233375
Cmpk2	0.54115057	0.002634897
Dock8	0.539007812	0.000527912
Foxp2	0.532726114	0.000292321
Setd6	0.528608127	0.00051544
Acbd4	0.524965228	0.001585069
Skil	0.524681307	0.000180044
Unc93b1	0.520740945	0.002491259
Cutc	0.518851063	1.88E-05
Gramd3	0.518217126	0.001863474
Trim30a	0.51564543	0.000510628
Acyp1	0.511694677	0.000659025
Prex1	0.509860643	0.000861201
Aktip	0.502212687	3.53E-07
Trim37	0.50188207	0.000350261

P4hb	0.498918667	0.001669721
Ndufb5	0.496179462	0.001864255
Psme1	0.49606566	0.003287225
Zc3hav1	0.491463483	0.000107104
Hfe	0.489981108	0.001744762
Aldh3a2	0.489900168	0.000781932
Slc25a19	0.487185294	0.00301787
Vipas39	0.475770585	0.000423815
Adgrl2	0.475461818	0.000220954
Psme2	0.467595995	0.002729122
Fam20b	0.465314306	7.94E-05
Nras	0.462820465	0.000259926
Dynlrb1	0.450400322	0.001849736
Ifih1	0.448793948	0.002120973
Sirpa	0.447408557	0.002843344
Zmym6	0.446169984	0.001175373
Prnp	0.441337004	0.002111911
Pon3	0.436799045	0.00038992
Sfmbt1	0.432683769	0.001149111
Atrnl1	0.423563729	0.000345912
mt-Ts1	0.420374484	0.003277338
1600014C10Rik	0.413595895	0.002794725
Tpd5211	0.413370196	0.003075305
2210015D19Rik	0.406229221	0.000364908
Vps16	0.400101167	0.002091881
Rest	0.373121653	0.002819555
Itsn1	0.357675805	0.00019172
Mknk1	0.357049361	0.003019981
Sdc2	0.344091896	0.0022336

Hdlbp	0.338557341	0.000952116
Dock1	0.322844005	0.000587668
1500011K16Rik	0.311765957	0.001739674
Senp2	0.302319539	0.001973416
Zfp266	-0.23883667	0.002940485
Cdc42	-0.259224845	0.002889497
Kat6b	-0.277099292	0.000906307
Ubp1	-0.284673522	0.000998887
Sugt1	-0.291027059	0.00150033
Hbp1	-0.294946462	0.002557857
Chd4	-0.296679225	0.001656076
Tspyl1	-0.298190966	0.002320387
Mapk9	-0.302009366	0.003259574
Prkrir	-0.302083469	0.000227696
Abcc9	-0.303464895	0.002929945
Cstf2t	-0.303495082	0.001654387
Arl2bp	-0.303873823	0.001279423
Armc8	-0.305931525	0.002369282
Sfswap	-0.306419318	0.001314984
Klhl24	-0.307423593	0.002678543
Man2a2	-0.313082825	0.002296176
Eif4b	-0.315135439	6.87E-05
Bzw2	-0.317012971	0.0013996
Pitrm1	-0.324107939	0.000757951
Nol7	-0.324289203	0.002567071
Phactr2	-0.324625833	0.001755663
Ybx1	-0.325675233	8.10E-05
Sort1	-0.329664801	0.001601181
Usp53	-0.330230088	0.003266129

Uap1	-0.331057172	0.000924267
Trappc8	-0.331084708	0.002161864
B230219D22Rik	-0.331450481	0.003140943
Pcmdt2	-0.333878238	0.00204098
Atp11a	-0.335731547	0.000289768
Mrps9	-0.336102383	0.001534751
Tshz1	-0.33704371	0.002282086
Zbtb18	-0.339828916	0.002857649
Hp1bp3	-0.345423056	0.002015335
Slc6a6	-0.346495736	1.17E-05
Stox2	-0.346942116	0.002882274
Reep5	-0.349936616	0.003160723
Stard7	-0.352751287	6.51E-05
Nphp1	-0.352950691	0.002599721
Eif4enif1	-0.354859599	0.003183668
Tmem38b	-0.356731849	0.001857041
Yy1	-0.357557852	0.00057744
Jph1	-0.361073228	0.001652523
Dnaja2	-0.362487308	0.000645855
Slmap	-0.364016607	0.003291145
Spryd7	-0.366401291	0.001762585
Picalm	-0.366675407	0.001550781
Atf6	-0.368415032	0.000259895
Zfp317	-0.36920577	0.00243981
Eif2s3x	-0.370074935	0.000249855
Irak1	-0.373693765	0.000306831
Ice1	-0.374055038	0.000667883
Agtppb1	-0.374151357	0.002616017
L2hgdh	-0.374466602	0.001451535

Zfp9	-0.376410819	0.00205126
Fundc2	-0.376570244	0.000377224
Rprd2	-0.378910936	0.001962258
Naa35	-0.379062706	0.002430748
Nbn	-0.379515105	0.002302548
Tdrd3	-0.383297307	0.000878538
Otud7b	-0.383416827	0.000383117
Pus7	-0.385776785	0.00188002
B230354K17Rik	-0.394244182	0.000603897
Rpa1	-0.397838696	0.000452958
Sfr1	-0.398332927	0.000861921
Gid4	-0.39846882	0.00112454
Ets2	-0.399544044	0.001446779
Myom1	-0.399631449	4.62E-06
Tmem186	-0.401537154	0.00092047
Atp1a2	-0.40244091	0.003269103
Slc8a3	-0.405744035	0.0002462
Rexo2	-0.406211681	0.000330368
Mnat1	-0.406616975	0.001975122
Hipk3	-0.407687481	0.000291856
Rab12	-0.408562015	0.002573059
Sh3glb1	-0.408699603	2.27E-05
Eif4g2	-0.409654459	1.45E-06
Capn3	-0.410226772	0.001129767
11-Sep	-0.410633621	0.000269474
Gramd1b	-0.412415693	0.001708879
Nolc1	-0.412585379	0.00059476
Nrd1	-0.415209529	0.000567472
Usp31	-0.417965047	0.000745054

Uald2	-0.418974529	0.002184555
Cped1	-0.419642823	3.08E-07
Mfsd8	-0.421536774	0.000958429
Sdad1	-0.421661588	0.002535466
Hrc	-0.422795068	0.000119036
Mapk8	-0.423030222	0.000123346
Osgp	-0.423078408	0.001201454
Mapk1ip1	-0.425225809	0.001187097
Tbc1d4	-0.427021931	0.000210788
Tmem87a	-0.427705322	0.001126026
Rlf	-0.429728673	0.000342744
Pdha1	-0.431799806	3.89E-06
Cldnd1	-0.432763111	0.002714011
Zfp422	-0.434871414	0.001424631
Myo18b	-0.439548809	0.000193956
1700025G04Rik	-0.440332546	0.001216649
Snx9	-0.44136088	4.73E-05
Zfand5	-0.441490536	0.000340696
Vezf1	-0.441949639	0.000145562
Txndc16	-0.443792179	0.000124583
Scrn3	-0.444493593	0.001385489
Cpe	-0.444976934	0.002356675
Mybpc2	-0.445460393	0.001796897
Murc	-0.446262911	1.67E-05
Gm7292	-0.44824438	1.80E-05
Ankrd11	-0.449019005	0.001004663
Sucla2	-0.451646209	0.0031118
Zfp652	-0.454036424	0.002170406
Bicd2	-0.454206929	2.49E-05

Tfdp1	-0.454489042	0.000917234
Psm6	-0.46542319	5.09E-05
Slc40a1	-0.466833242	0.001078535
Hmgb1	-0.467847762	0.003113457
Art3	-0.468998483	5.98E-08
Thumpd1	-0.469756909	0.000353652
R3hdm2	-0.474973387	0.002868409
Cc2d1b	-0.475867815	0.002348347
Fgfr1	-0.477787835	0.003040699
Rpl23	-0.47867336	0.001064285
Cecr2	-0.479017184	3.57E-05
Pat1	-0.479818346	0.000565785
Capn7	-0.480062823	0.00144011
Gm9821	-0.480084514	0.000582042
Phtf2	-0.480581667	0.001489634
Ddx21	-0.482315693	0.001351466
Ndc1	-0.483863088	0.000877901
Hip1	-0.486126564	6.76E-07
Atp5l	-0.493690453	1.70E-05
Atcayos	-0.494708529	0.002035783
H1f0	-0.496590926	4.56E-08
Dnajc21	-0.497458976	0.000813899
Etl4	-0.498969898	0.000173644
Fam63a	-0.499208647	0.001954924
Ncte1	-0.499369252	2.45E-06
Usp45	-0.499498169	0.000615239
5730409E04Rik	-0.500316304	0.00012807
Eif3j1	-0.500512433	0.001247707
Fut10	-0.502954335	0.000794516

Fam185a	-0.503350614	0.000481096
4931406P16Rik	-0.503736253	2.18E-05
Zfyve1	-0.504764685	0.001163306
Kifap3	-0.505509987	2.39E-05
Slc12a2	-0.510564664	0.001347703
Fam210a	-0.511133321	1.20E-06
Prepl	-0.513348794	0.001772354
Txlnb	-0.518716922	4.74E-08
Prkab2	-0.519067657	0.0014171
Vezt	-0.520627117	0.000213367
Pcnt	-0.524752647	3.27E-08
Leo1	-0.529763731	0.000755145
Dnal1	-0.539524965	0.001331004
Tsen2	-0.542440332	0.001619428
Aaed1	-0.545188101	0.000725972
Zfp1	-0.546654128	0.000475679
Mrps33	-0.549799916	2.69E-05
Nfx1	-0.549947683	1.20E-08
Tbcel	-0.550123586	1.81E-07
Ap1ar	-0.550409764	2.40E-05
Mllt3	-0.551252275	0.000331205
Tor1aip1	-0.553562023	3.16E-06
Dpf3	-0.554820469	1.35E-05
Zfp112	-0.557537489	0.001240103
Gm2830	-0.557700994	2.04E-05
Slc30a4	-0.563909019	1.95E-06
Art5	-0.564476568	0.000299834
Msh3	-0.564488823	0.001123861
Myo5c	-0.565901809	8.93E-05

Ssx2ip	-0.566162404	1.84E-05
Clpx	-0.576136648	4.81E-06
Zak	-0.576776737	1.93E-08
Snhg5	-0.578071005	0.000923552
Axin2	-0.58200642	0.002997986
Gadd45b	-0.583984919	0.000101658
Snhg6	-0.585327687	0.000435441
Rilp11	-0.591193861	0.000372171
Zfp229	-0.591744975	0.00272286
Mettl7a1	-0.597090309	0.000567958
Usp20	-0.603906941	0.002061931
Atg12	-0.607851283	5.25E-06
Atp2c1	-0.611321	1.49E-06
Ndufa13	-0.611696951	1.04E-05
2900097C17Rik	-0.611968942	8.91E-06
Gm561	-0.613139192	2.83E-05
Naca	-0.615931615	0.00192111
RP24-470E5.4	-0.616044918	0.002695184
Gnl3l	-0.61605319	4.84E-09
Ctage5	-0.618337199	0.000351785
Nav2	-0.620654098	0.001773803
Slc26a6	-0.62078393	0.002398747
Akap9	-0.624227542	0.002476947
Ddo	-0.628531208	4.36E-07
Cep85	-0.646852219	4.81E-08
Znhit6	-0.651343965	0.000751075
Atp1b2	-0.651447981	0.000435822
Sorl1	-0.652612432	7.57E-06
Gm12439	-0.660735581	0.002766149

Phc1	-0.666517776	0.001191282
Lsm11	-0.668146343	0.001541978
Asb11	-0.669921541	0.00013608
RP24-140K12.4	-0.671675543	0.002798015
Pcgf3	-0.674869362	4.61E-08
Abcb8	-0.68279899	0.000124065
Fam131a	-0.684221037	0.000426216
Ift57	-0.685473388	0.002399304
Col24a1	-0.690339145	0.002545782
Fzd7	-0.690679222	0.00115819
Lym9	-0.694660168	0.000910952
Gatsl2	-0.696823229	0.000224456
Ccdc130	-0.70135361	0.003142199
Neu2	-0.702432611	0.001579025
Zfp354a	-0.714486447	0.00033881
Klhl31	-0.715618279	4.46E-07
Nampt	-0.721655171	6.85E-14
Ppp1r27	-0.722150368	0.002306963
Slc37a4	-0.722645158	9.28E-06
Dbi	-0.723988475	2.71E-05
Eif4g3	-0.728393784	7.52E-07
Asph	-0.745467932	9.80E-08
Minpp1	-0.746145184	2.45E-08
Ttl7	-0.752425223	1.29E-06
Pygo1	-0.754950301	1.04E-08
Gm904	-0.755519467	0.002411484
Ranbp1	-0.757987872	2.42E-06
BC024978	-0.762676065	0.001443246
Map10	-0.769109608	0.000102911

Zfp712	-0.771343172	0.000975561
Tigd4	-0.771673583	0.002174424
RP23-181C16.4	-0.781830804	0.000132398
Ift74	-0.805811206	3.78E-07
Tceal8	-0.819170401	5.38E-05
Pnpla3	-0.825935156	0.001546539
Svip	-0.836842503	8.89E-05
Hnmt	-0.838839145	0.001138613
Asb4	-0.841073702	6.26E-06
Tcea1	-0.843400865	2.13E-08
Pnck	-0.853228518	0.002464585
Psmc12	-0.855439628	3.50E-14
Enox2	-0.861701604	0.000553487
Kcnab1	-0.875654916	4.00E-05
2700097O09Rik	-0.876565691	8.05E-06
Sgcb	-0.878844024	2.34E-12
Rbfox1	-0.882416727	1.34E-12
Snhg4	-0.88890159	0.000166992
Ube2d1	-0.896996909	5.52E-14
Lmnb2	-0.90011038	0.002206901
Porcn	-0.917153989	1.99E-05
Gm15564	-0.918718358	0.000897923
Cep295	-0.923859789	8.70E-08
Cenpq	-0.923985552	9.26E-05
Cmya5	-0.945641201	8.32E-12
Sh3rf2	-0.947320124	3.63E-07
Asb18	-0.949460792	3.90E-09
Rap1gap	-0.951518326	0.000434
Gm15662	-0.954393058	0.001169994

2310065F04Rik	-0.965599839	0.000174491
Cdh4	-0.971995583	0.00245737
Slc43a1	-0.972222396	2.39E-05
Lars2	-0.989572411	0.000303605
Srbd1	-1.009095044	4.66E-06
Mphosph10	-1.009669538	1.14E-09
Smg5	-1.017984908	1.13E-14
Rn18s-rs5	-1.020298153	0.000323638
Bcl7b	-1.067475544	9.23E-09
Klhl33	-1.08095844	3.04E-14
Eda2r	-1.092867331	9.14E-12
A930018M24Rik	-1.107803309	4.25E-14
Oacyl	-1.120116744	0.002777238
Cox15	-1.165623537	2.14E-20
Apool	-1.181455503	2.47E-16
Gm11613	-1.184287972	4.15E-07
Nutf2	-1.192426951	2.54E-17
Map9	-1.214309357	0.002341911
Gm28321	-1.226844114	1.34E-06
Trp63	-1.234573928	5.56E-10
Gm5091	-1.252990753	0.003159524
Nsun3	-1.271473249	3.45E-08
Cbr4	-1.27571794	1.30E-17
Asb15	-1.299940003	6.19E-11
Ngfr	-1.351493239	7.74E-06
Casr	-1.407182982	9.91E-05
Cdkn1c	-1.424895701	3.74E-11
Kcnc3	-1.429623463	0.000716663
Fgfbp1	-1.430561177	0.003155409

5730419F03Rik	-1.502750412	1.85E-07
RP23-1B20.2	-1.582903971	4.33E-05
Hsbp111	-1.625538299	6.29E-06
Plin3	-1.640260332	1.60E-23
Calr3	-1.657575038	3.13E-09
Muc4	-1.67414674	7.85E-05
Lrp2bp	-1.724977115	2.46E-09
Nek3	-1.77057771	6.43E-11
Abca4	-1.823570517	1.33E-08
Ndufa1	-1.975196768	4.55E-43
Morn4	-2.175664061	2.29E-05
Stxbp4	-2.227204758	2.16E-15
Slc17a7	-2.474882746	7.66E-05
